



CYBERSECURITY NEXUS

CYBERSECURITY NEXUSTM [CSX]

Abdessabour Arous
ISACA Tunisia Chapter Member



WHO I AM

- Cyber Security Professional for 9+ years
- Malwares / Operating Systems Internals Specialist
- Lecturer in Computer Security
- Law Student

AGENDA

CSX

CERTIFICATIONS

THE WORLD AFTER STUXNET



Source: <https://apt.securelist.com>

CYBER SECURITY SKILLS SHORTAGE

- Not enough Cybersecurity Professionals

Cisco **2014** Annual Security Report, more than **1 million positions** for security professionals remain unfilled around the world.

ISACA and RSA conference 2016 State of Cybersecurity:

2 million Global shortage of cybersecurity professionals by **2019**

CYBER SECURITY SKILLS SHORTAGE

- Applicants are not qualified

84%
ORGANIZATIONS BELIEVE
HALF OR FEWER OF
APPLICANTS FOR **OPEN
SECURITY JOBS ARE
QUALIFIED**⁹

53% 
OF ORGANIZATIONS
EXPERIENCE DELAYS
AS LONG AS **6 MONTHS
TO FIND QUALIFIED
SECURITY CANDIDATES**¹⁰

Source: ISACA State of Security implications for 2015

NEW CYBER SECURITY JOBS

Old

- ✓ Security Administrator
- ✓ Security Manager
- ✓ Security Engineer
- ✓ Penetration Tester
- ✓ Security Auditor

New

- Security Operation Center Analysts ?
- Security Architect ?
- Threat Intelligence Analyst ?

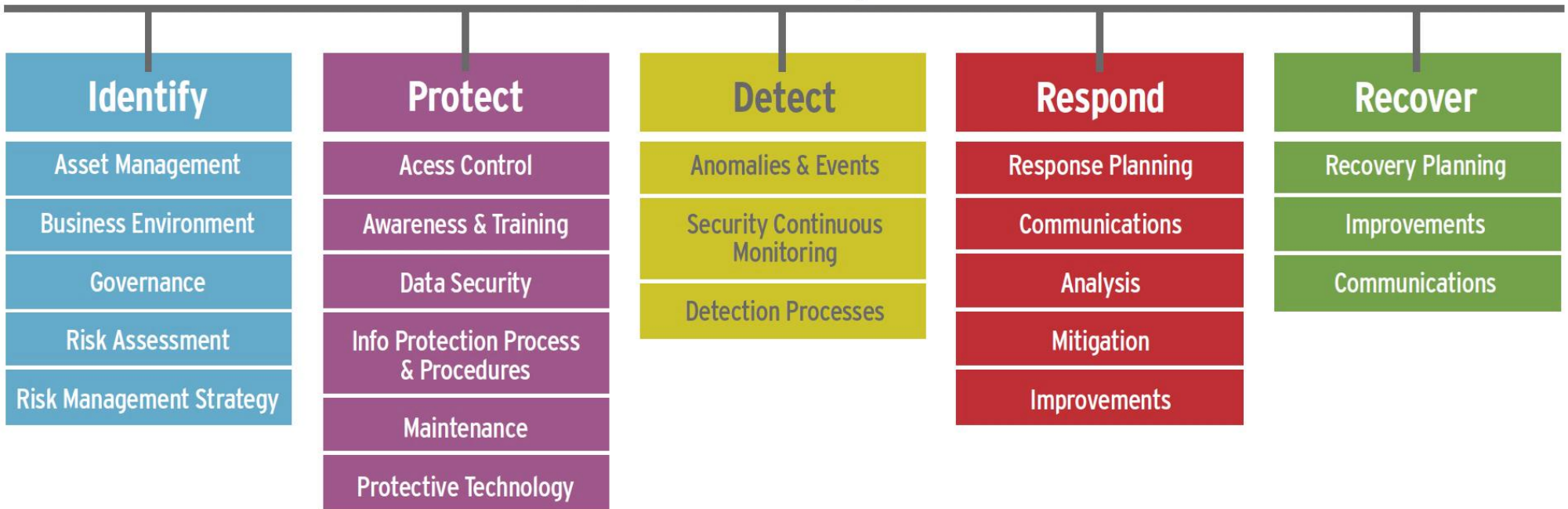
LET'S SUM UP

- Information System have become a Battlefield
- Don't have enough Cybersecurirty Professional.
- Cybersecurity professionals don't have the right skills
- Few or no Cybersecurity courses in the Academia



- ✓ Need a new curriculum
- ✓ For Academia and the Industry
- ✓ Validate the real technical level

NIST CYBER SECURITY FRAMEWORK

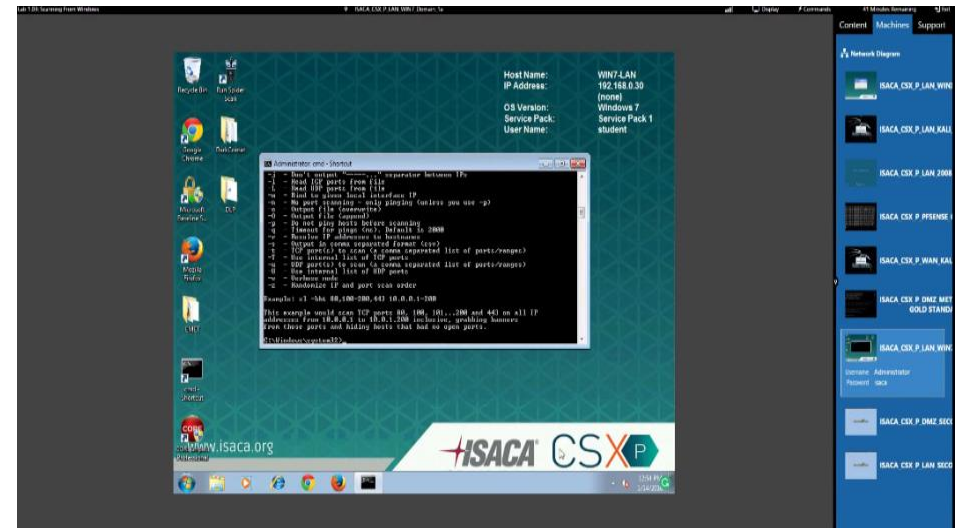


CYBER SECURITY NEXUS PATHWAY



PRACTITIONER: PERFORMANCE BASED EXAM

- ✓ Use vulnerability assessment processes and scanning tool
- ✓ Implement specified cybersecurity controls – for network, application, endpoint, server.....
- ✓ Identify anomalous activity and potential internal
- ✓ Perform initial attack analysis to determine the attack vectors, targets and scope and potential impact.
- ✓ Execute defined response plans to contain damage on affected assets.
- ✓



CSX CERTIFICATIONS ARE...

- ✓ New Curriculum adapted to well recognized Cyber Security Best Practices and Frameworks (NIST)
- ✓ Performance Based Exams to test real world performance



Abdessabour Arous
abdessabour.arous@outlook.com

For more information, visit us at
<https://cybersecurity.isaca.org>